

## EPA Natural Gas Star Program Annual Report 2005

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This report includes the following BMPs:

- ☐ BMP 1: Directed inspection and maintenance at gate stations and surface facilities
- ☒ BMP 2: Identify and rehabilitate leaky distribution pipe
- ☐ BMP 3: Directed inspection and maintenance at compressor stations
- ☐ BMP 4: Use of turbines at compressor stations
- ☐ BMP 5: Identify and replace high-bleed pneumatic devices
- ☐ BMP 6: Partner Reported Opportunities (Please specify)

Period Covered by Report: From: 1/1/2005 To: 12/31/2005

Signature:  Date:

**BMP I: Directed Inspection and Maintenance at Gate Stations and Surface Facilities**

Year: 2005

<b>A. Facility Summary</b>  Number of facilities surveyed: Facilities  Number of facilities with Leaks Found: Facilities	<b>B. Leak Summary</b>  Total Number of Leaks Found  Total Number of Leaks repaired
<b>C. Cost Summary</b>  Total Cost of Surveys Conducted  Total Cost of Leak Repairs	
<b>D. Methane Emissions Reduction</b> _____ Mcf  <input type="checkbox"/> Actual Field Measurement  <input type="checkbox"/> Calculation Using Default	
<b>E. Total Value of Gas Saved:</b>  _____	<b>F. How Many facilities do you plan to survey next year?</b>  _____ Facilities

BMP Comments: An estimate of 50% of the total affected facilities was used to represent the number of facilities where leakage was detected and 5% was used to represent the number of facilities where components were replaced.

**BMP 2: Identify and Rehabilitate Leaky Distribution Pipe****YEAR: 2005**

<b>A. Replacement Summary</b>		<b>B. Leak Summary</b>	
Miles of distribution pipe replaced	46.69 miles	Total number of leaks repaired (excluding pipe replacement):	6559 leaks repaired
Total Cost of Pipe Replacement	\$13,891,080	Total Cost of Leak repairs:	
<b>C. Methane Emissions Reduction:</b> 3661.69 Mcf			

Method Used: ☐ Actual Field Measurement☒ Calculation using default

Main Replacement				Services Replacement			
Type of Pipe Replaced	Miles Replaced	Conversion Factor (Mcf/mile)	Emission Reduction (Mcf)	Miles Replaced	Avg Length of Service	Leak Rate Conversion (Mcf/mi)	Emission Reduction (Mcf)
Cast Iron	8.55	239	2044.36		50	0.2	0.00
Protected Steel	2.11	3	6.33	0.92	50	1.7	1.56
Unprotected Steel	14.41	110	1585.02	6.54	50	0.1	0.65
Plastic	1.67	12	20.03	11.43	50	0.3	3.43
Copper	0.00			0.00			0.00
Not Available	0.00	29		1.06	50	0.3	0.32
Totals	26.74		3655.73	19.95			5.96

D. Total Value of Gas Saved \$10,985

E. How many miles of pipe do you plan to replace next year?

24.62 Miles